Benny & Fred

DEC 22 1867

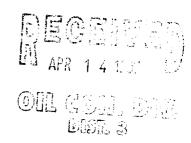
Meter Number:93292 Location Name:MEDIO CANYON #5

Location:TN-24 RG-04 SC-25 UL-I

6 - Jicarilla

NMOCD Zone:OUTSIDE

Hazard Ranking Score:00



# RATIONALE FOR RISK-BASED CLOSURE OF PRODUCTION PITS LOCATED OUTSIDE OF THE VULNERABLE ZONE IN THE SAN JUAN BASIN

This production pit location was ranked according to the criteria in the New Mexico Oil Conservation Division's Unlined Surface Impoundment Closure Guidelines and received a ranking score of zero. The estimated depth to groundwater is greater than 100-feet beneath ground surface (bgs), the pit is not in a well head protection area, and there are no surface water bodies within 1,000 horizontal feet of the pit location.

The primary source, discharge to the pit has been removed. There has been no discharge to the pits for at least 4 years and the pits have been closed for at least one year.

Each pit was backfilled with clean soil and graded in a manner to divert precipitation away from the excavated area. Minimal infiltration of rainfall is expected. Any rainfall that does infiltrate the ground surface must migrate through clean backfill before reaching the residual hydrocarbons.

There is no source material at the ground surface, so direct contact of hydrocarbons with livestock and the populous is not likely.

In general, outside of the vulnerable area and alluvial valleys, bedrock material is generally encountered within 20 feet of the ground surface. Bedrock material in the San Juan Basin consists of interbedded sandstones, shales and clays. According to Freeze and Cherry, 1979, the hydraulic conductivity of the bedrock material are as follows:

Sandstone  $10^{-9}$  to  $10^{-13}$  cm/sec Shale  $10^{-12}$  to  $10^{-16}$  cm/sec Clay  $10^{-12}$  to  $10^{-15}$  cm/sec

Based on this information, the residual hydrocarbons should not migrate to groundwater.

Natural process (bioremediation) are degrading the residual hydrocarbon to carbon dioxide and water and will continue until the source is gone, therefore minimizing any impact to the environment.

Based on the above information, it is highly unlikely that any source material will impact groundwater or ever find an exposure pathway to affect human health and therefore El Paso Field Services Company (EPFS) requests closure of this pit location.



### FIELD PIT SITE ASSESSMENT FORM

GENERAL	Meter: 93292 Location: Media Canyon #5 Operator #: 8367 Operator Name: P/L District: OJITO Coordinates: Letter: T Section 25 Township: 24 Range: 4  Or Latitude Longitude Pit Type: Dehydrator Location Drip: Line Drip: Other: Site Assessment Date: 6/23/94 Area: 08 Run: 73					
SITE ASSESSMENT	NMOCD Zone:  (From NMOCD  Maps)  Inside  Outside  (2)  Noutside  (1)  Fee  (3)  Indian Tiraille Apache  Depth to Groundwater  Less Than 50 Feet (20 points)  (1)  50 Ft to 99 Ft (10 points)  Greater Than 100 Ft (0 points)  Wellhead Protection Area:  Is it less than 1000 ft from wells, springs, or other sources of fresh water extraction?, or; Is it less than 200 ft from a private domestic water source?  Horizontal Distance to Surface Water Body					
	Less Than 200 Ft (20 points)					
Remarks: Realine Book-Ourside, Vulnerable Zone Topo-Oursi						
MA	3pits. Will close L Pirdey					
RE	PUSHIN					

# FIELD PIT REMEDIATION/CLOSURE FORM

GENERAL	Meter: 93292 Location:MEDID CANYON #5  Coordinates: Letter: Section 25 Township: 24 Range:  Or Latitude Longitude  Date Started: Run:08 73
FIELD OBSERVATIONS	Sample Number(s): Sipt
CLOSURE	Remediation Method:  Excavation  Onsite Bioremediation  Backfill Pit Without Excavation  Soil Disposition:  Envirotech  Excavation Method:  Approx. Cubic Yards 300 to 10/18/45  Approx. Figure 10-9-9-95  Tierra
	Other Facility Name:
REMARKS	Remarks: Pro READINGS: (N-3.9)(S-0.2)(E-0.4)(W-1.6)  PILSIZE 29XZ3X15 ROCK BOHOM, PILLISTED OUTSIDE W.U. ZONE  MORE THAN 100' FROM EPHEMERAL STREAM. E.P.N.G. (NORMAN) ONSITE  FENCE - 28XZ8X3 NO NET SPRAYED PIT WITH SOILENHANCET
	Signature of Specialist: Alcholas Schmaff (SP3191) 03/16/94



## FIELD SERVICES LABORATORY ANALYTICAL REPORT

# PIT CLOSURE PROJECT - Soil Samples Inside the GWV Zone

## SAMPLE IDENTIFICATION

	Field ID	Lab ID
SAMPLE NUMBER:	NS104	947 <del>474</del> 574 Rus
MTR CODE   SITE NAME:	93292	MEdio Campon#5
SAMPLE DATE   TIME (Hrs):	10-03-95	1115
PROJECT:	Dic Dits	
DATE OF TPH EXT.   ANAL.:	10-495	
DATE OF BTEX EXT.   ANAL.:	10/4/95	10/4/95
TYPE   DESCRIPTION:	V6	Pay / Trour Sand
TIFE   DESCRIPTION.		

Field Remarks:  $(N-8.1)(3-5.3)(E-6.7)(\omega-7.5)$ 

#### RESULTS

	RESULT	UNITS	QUALIFIERS			
PARAMETER	NESOCI III		DF	Q	M(g)	V(mi)
BENZENE	< 0.5	MG/KG				
TOLUENE	0.9	MG/KG				
ETHYL BENZENE	1.3	MG/KG				
TOTAL XYLENES	6.0	MG/KG				
TOTAL BTEX	9.0	MG/KG				
TPH (418.1)	327	MG/KG			213	JY
HEADSPACE PID	19	РРМ				
PERCENT SOLIDS	93.8	%				

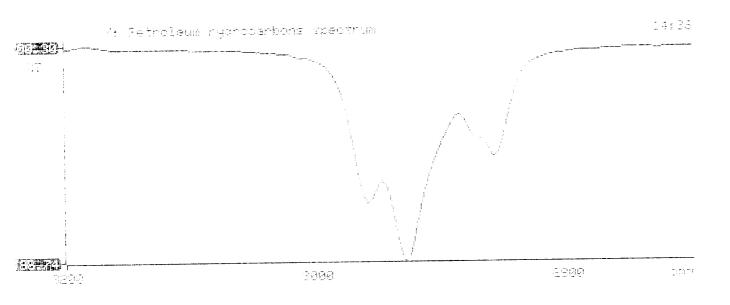
-- TPH is by EPA Method 418.1 and BTEX is by EPA Method 8020 -
The Surrogate Recovery was at

1.3 7c for this sample All QA/QC was acceptable.

Narrative:

DF = Dilution Factor U	sed
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Approved By:



#### **BTEX SOIL SAMPLE WORKSHEET**

Fil	e :	947574	Date Pi	rinted :	10/5/95	
Soil Mas	s (g):	5.05	Multiplier	(L/g) :	0.00099	
Extraction vo	I. (mL) :	10	DF (Analy	tical) :	200	
Shot Volume (uL):		50	DF (Re	eport) :	0.19802	
						Dat Limit
						Det. Limit
Benzene	(ug/L) :	0.00	Benzene	(mg/Kg):	0.000	0.495
Toluene	(ug/L) :	4.78	Toluene	(mg/Kg):	0.946	0.495
Ethylbenzene	(ug/L) :	6.62	Ethylbenzene	(mg/Kg):	1.311	0.495
p & m-xylene	(ug/L) :	28.60	p & m-xylene	(mg/Kg):	5.663	0.990
o-xylene	(ug/L) :	5.90	o-xylene	(mg/Kg):	1.168	0.495
•			Total xylenes	(mg/Kg):	6.832	1.485
			Total BTEX	(mg/Kg):	9.089	

#### EL PASO NATURAL GAS EPA METHOD 8020 - BTEX SOILS

File : C:\LABQUEST\CHROM001\100495-1.002 Method : C:\LABQUEST\METHODS\1-091895.MET

Sample ID : 947574,5.05G,50U Acquired : Oct 02, 1995 12:17:24 Printed : Oct 04, 1995 13:32:10

User : MARLON

#### Channel A Results

COMPONENT	RET TIME	AREA	CONC (ug/L)
BENZENE	4.917	0	0.0000
a,a,a TFT	6.640	5244231	113.5919
TOLUENE	8.653	1278962	4.7779
ETHYLBENZENE	12.677	1665065	6.6150
M & P XYLENE	13.053	8943574	28.6263
O XYLENE	14.157	1399490	5.9038
BFB	15.737	67525568	93.1526

#### C:\LABQUEST\CHROM001\100495-1.002 -- Channel A

